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EXPERIMENT WITH NEW DRILLING MACHINE IN HUNGARY

Tibor Boldizsar

To facilitate rock drilling the Mining Research Institute has equipped a drilling machine with two hydraulic lever arms and a shoring device. The machine was tried out for a long time at Gyongyosoroszi [Heves County], and its practicability was proved. On the basis of experience gained during the tryout, the Mining Research Institute drew up plans for a modified machine which can be mass produced.

The appended figure shows the final form of the machine. A hydraulic piston pump (8) activates the hydraulic equipment. The piston creates pressure of 30 atmospheres and is operated by a manual lever. To balance the long drilling arms and the attached drill hammers, a 600-pound weight is placed at the back of the machine (12). This weight assures the stabilization of the structure, even under the most unfavorable circumstances.

Two skilled drillers can drill 20-25 drilling holes of 1.8-2.4 meters in 60-90 minutes in hard, volcanic rock. With mechanized loading, the drilling can be advanced 5-8 meters per 8-hour shift.

[Appended figure follows.]

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